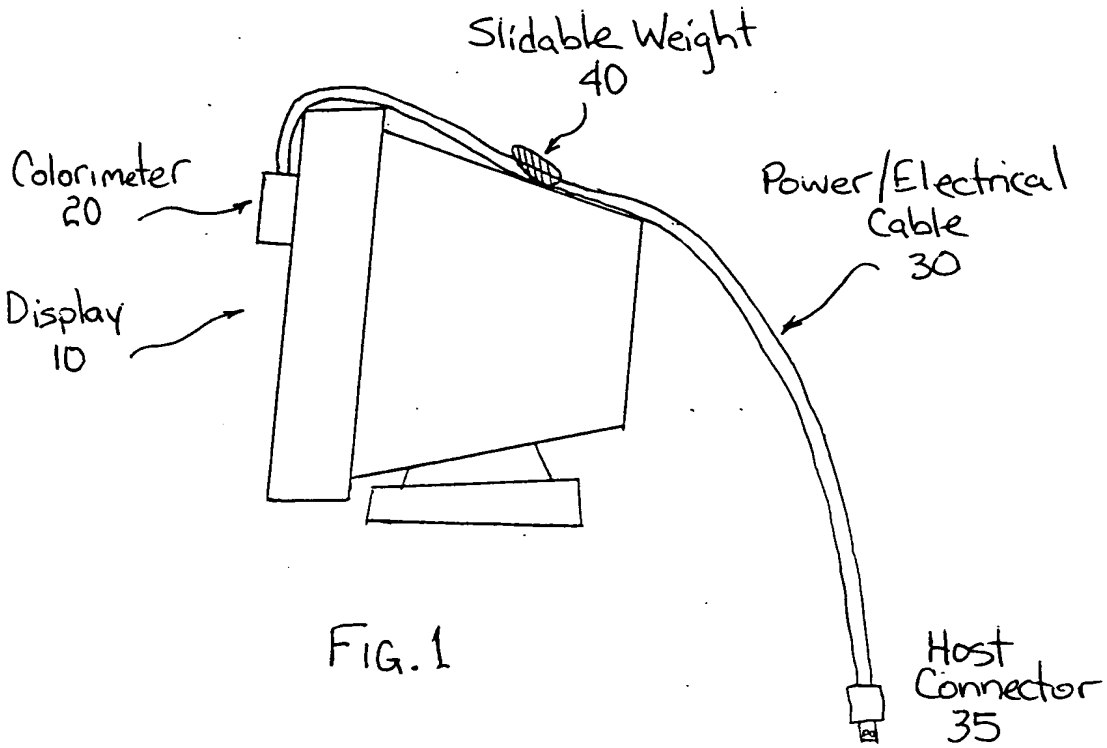
Slidable Weight
40
Colorimeter
20
Display
10
Power/Electrical
Cable
30
Host
Connector
35

FIG. 1

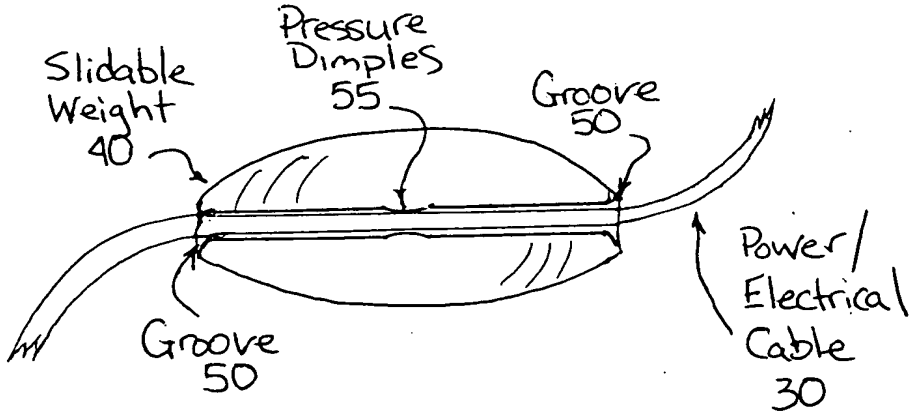
Slidable
Weight
40
Pressure
Dimples
55
Groove
50
Groove
50
Power/
Electrical
Cable
30

FIG. 2

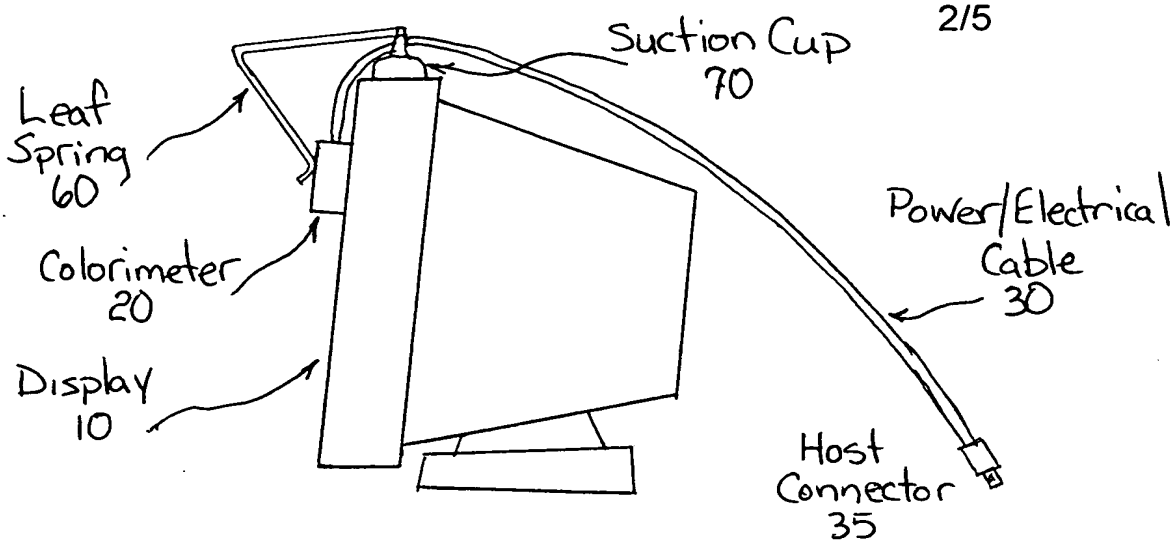

FIG. 3

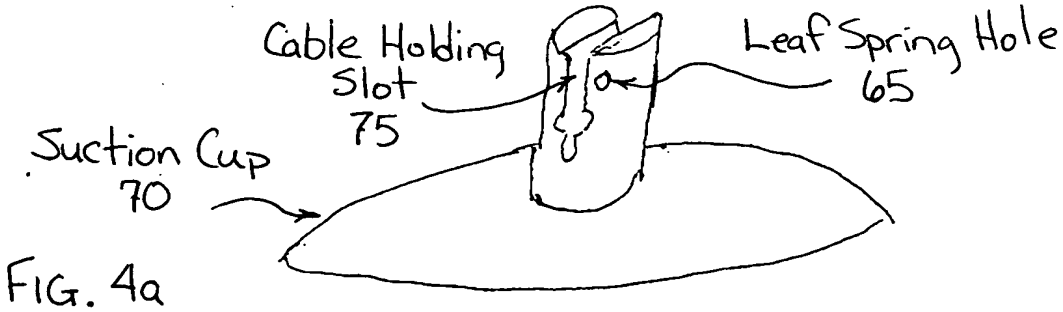

FIG. 4a

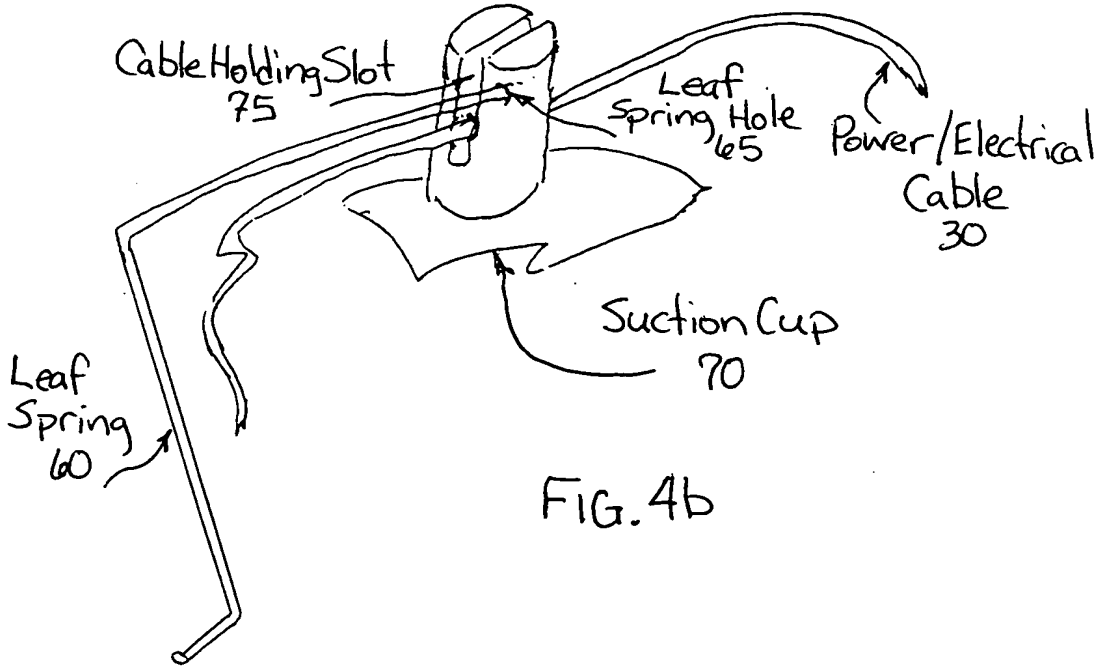

FIG. 4b

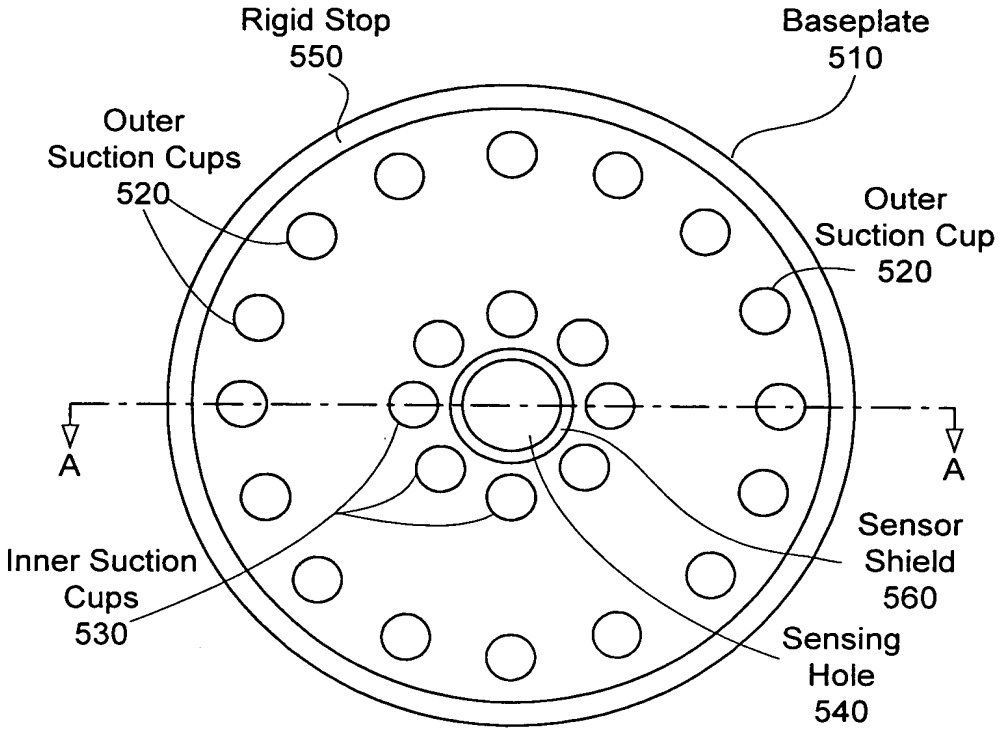
Rigid Stop
550
Baseplate
510
Outer
Suction Cups
520
Outer
Suction Cup
520
A
A
Inner Suction
Cups
530
Sensor
Shield
560
Sensing
Hole
540

Fig. 5a

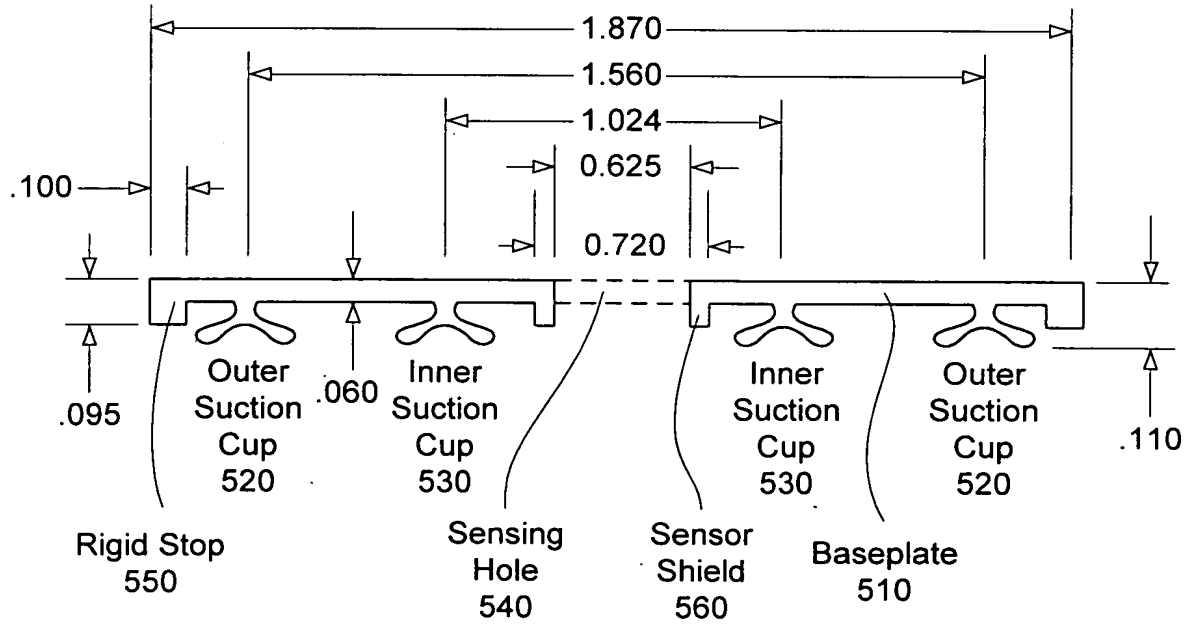
1.870
1.560
1.024
0.625
0.720
.100
.095
.060
.110
Outer
Suction
Cup
520
Inner
Suction
Cup
530
Inner
Suction
Cup
530
Outer
Suction
Cup
520
Rigid Stop
550
Sensing
Hole
540
Sensor
Shield
560
Baseplate
510

Fig. 5b

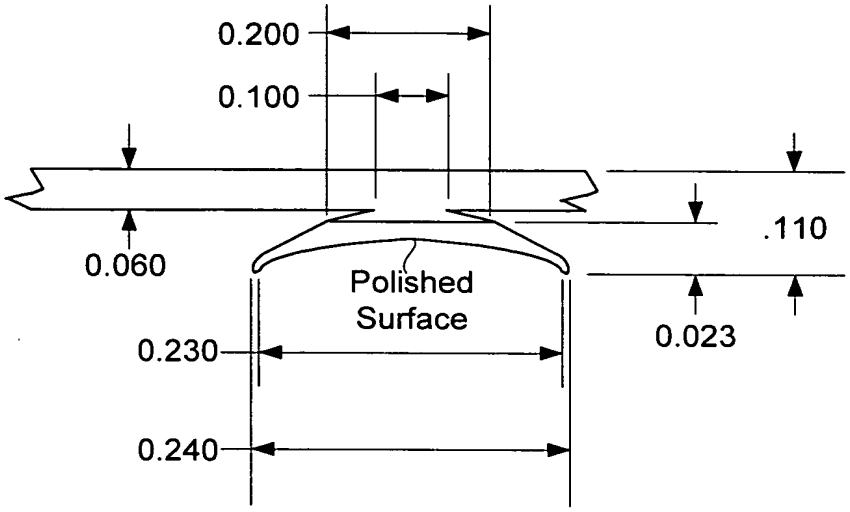
0.200
0.100
.110
0.060
Polished
Surface
0.023
0.230
0.240

Fig. 6a

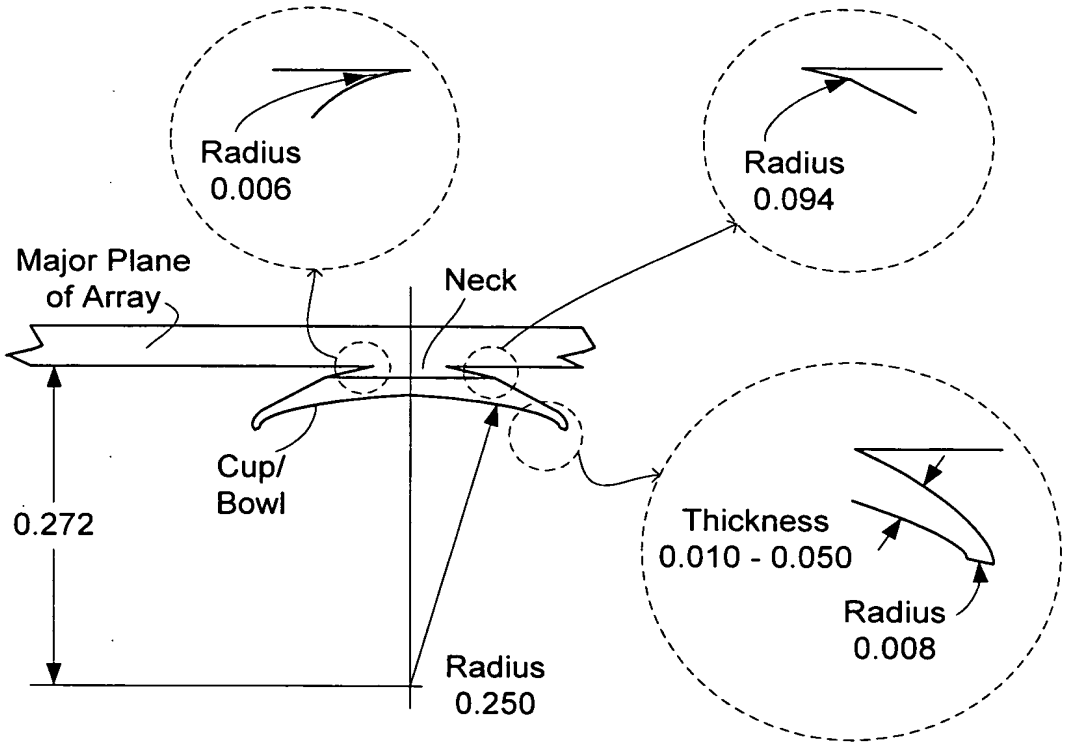
Radius
0.006
Radius
0.094
Major Plane
of Array
Neck
Cup/
Bowl
0.272
Thickness
0.010 - 0.050
Radius
0.008
Radius
0.250

Fig. 6b

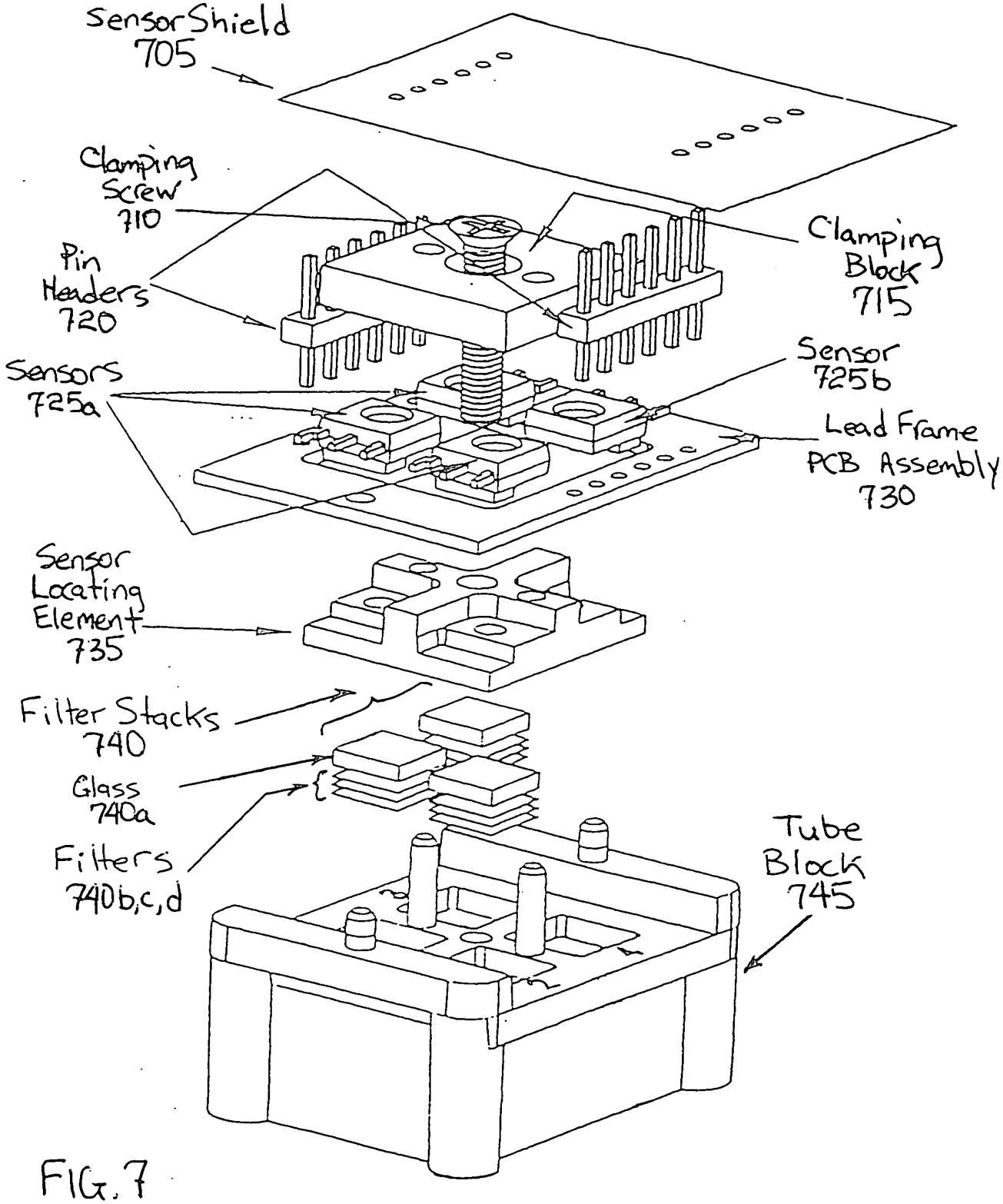
Sensor Shield
705
Clamping Screw
710
Pin Headers
720
Clamping Block
715
Sensors
725a
Sensor
725b
Lead Frame
PCB Assembly
730
Sensor Locating Element
735
Filter Stacks
740
Glass
740a
Filters
740b,c,d
Tube Block
745

FIG. 7